

EOSDIS Users and Usage

■ *What We Know About Our Users*



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Summary of
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EOSDIS Users and Usage - Overview

- ESSAAC asked that “EOSDIS usage and user statistics be reported on at [this] and subsequent meetings”
- This presentation summarizes the results from a study of the users of the EOSDIS and their usage of data
 - Presentation focuses on the users and usage of data from the EOSDIS Core System and the DAAC Version 0 and Version 1 systems
 - The users that received data from other ESE-funded data systems, including flight project web sites, SIPS, SCFs, ESIPs, REASoNs, and Direct Broadcast sites, are not included in this study
 - Lessons learned from the Federation indicate that more than 30% of the overall users of ESE data utilize these distributed, community (or theme)-focused data providers
- This summary presentation is based on information we have gleaned from statistical information on users and user requests
- The knowledge gained from this EOSDIS usage study will be critical for informing the strategic decisions regarding the evolution of the ESE data and information systems to meet the changing needs of the user community



EOSDIS Users in FY2003

- EOSDIS was accessed (including web page hits) by over 2.1 million distinct users (based on email addresses) in FY2003
- 228,000 distinct users received data and information products from EOSDIS in FY2003
 - 17,000 users placed orders for NASA's Earth science data products using the various user interfaces available at the eight DAACs
 - Remainder of users downloaded data products via FTP or information products via the web



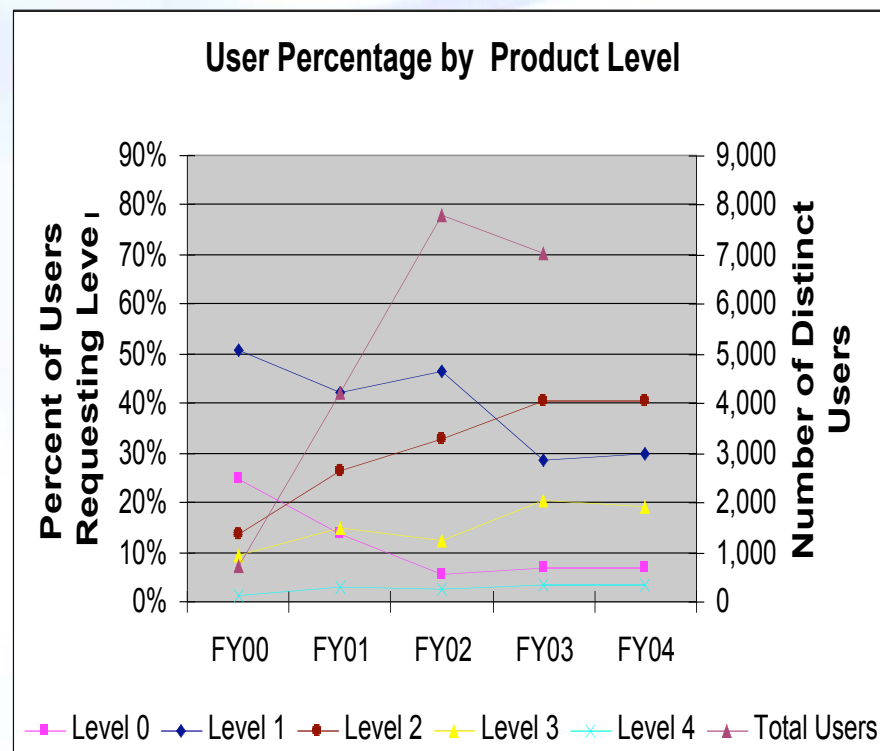
EOSDIS Usage in FY2003

- EOSDIS users received more than 29 million data and information products (includes all data and information products distributed to end users via web downloads, FTP retrievals, and subscriptions, etc.)
 - 15 million were data products delivered per a specific user request
 - 5 million products were requested from the ECS system (16% via new data pools)
 - 11 million were “on-line” data and information products retrieved from anonymous FTP servers at DAACs
 - 3 million information products were download from DAAC web sites
- The EOSDIS Version 0 and Version 1 system distribution of mostly derived products accounted for more than 80% of the total product distribution (by number of products)
- The ECS, which was designed to distribute the large EOS satellite data files, distributed 80% of the total distributed EOSDIS data volume



What the ECS Data Usage Metrics Show

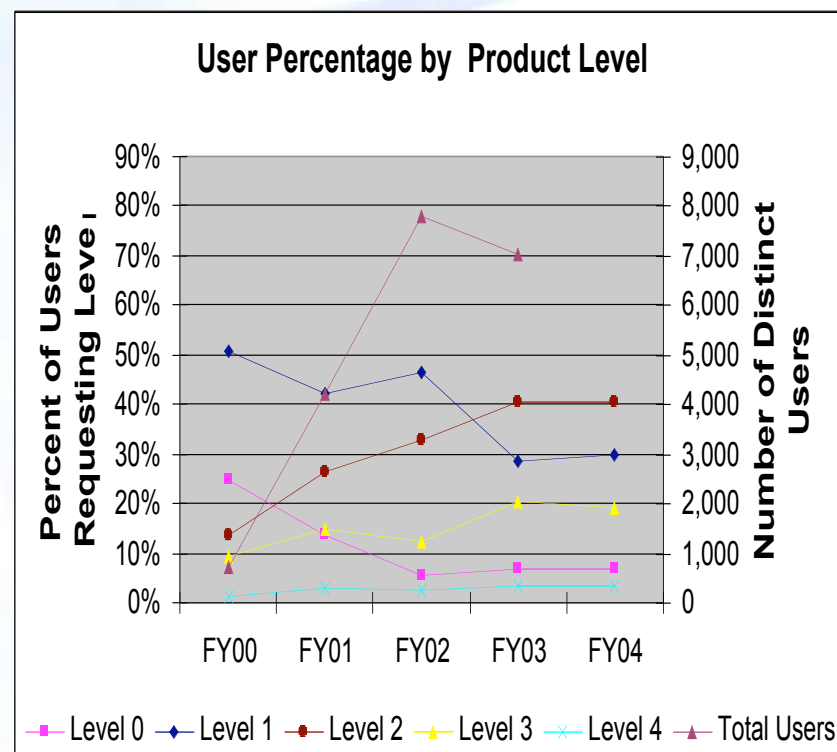
- Total number of users who received data from ECS grew from FY2000 to FY2002 but fell slightly in 2003.





What the ECS Data Usage Metrics Show

- Total number of users who received data from ECS grew from FY2000 to FY2002 but fell slightly in 2003.
- Increasingly, users are ordering higher level products (L2-L4)
 - □ 70% of users received a higher level product in FY2003
 - □ Four year trends show that users in all domains (.gov, .edu,...) are requesting more higher level data products
 - □ First time users are also strongly gravitating to higher level products

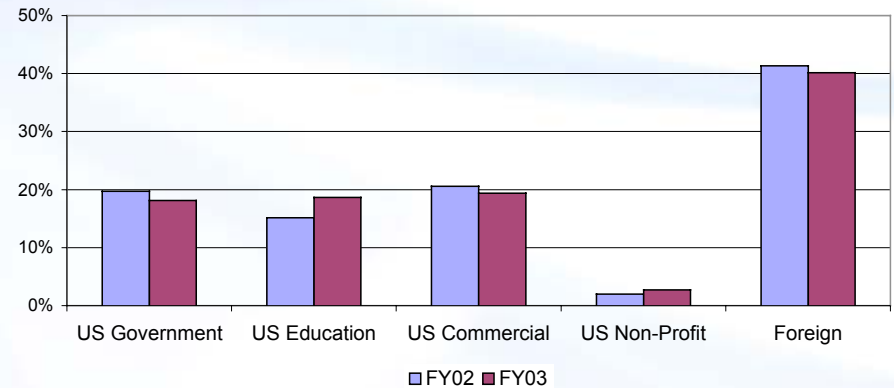




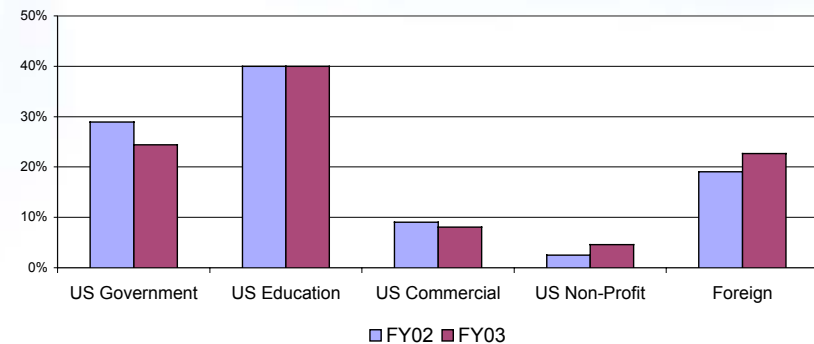
What the ECS Data Usage Metrics Show

- The number of ECS products requested has steadily increased over the past four years
 - □ University researchers (based on .edu email) received 40% of the total EOS products delivered to end users in both 2002 and 2003
- 40% of all users were from countries other than the USA
 - □ Products were distributed to 139 countries in 2003

Users by Domain

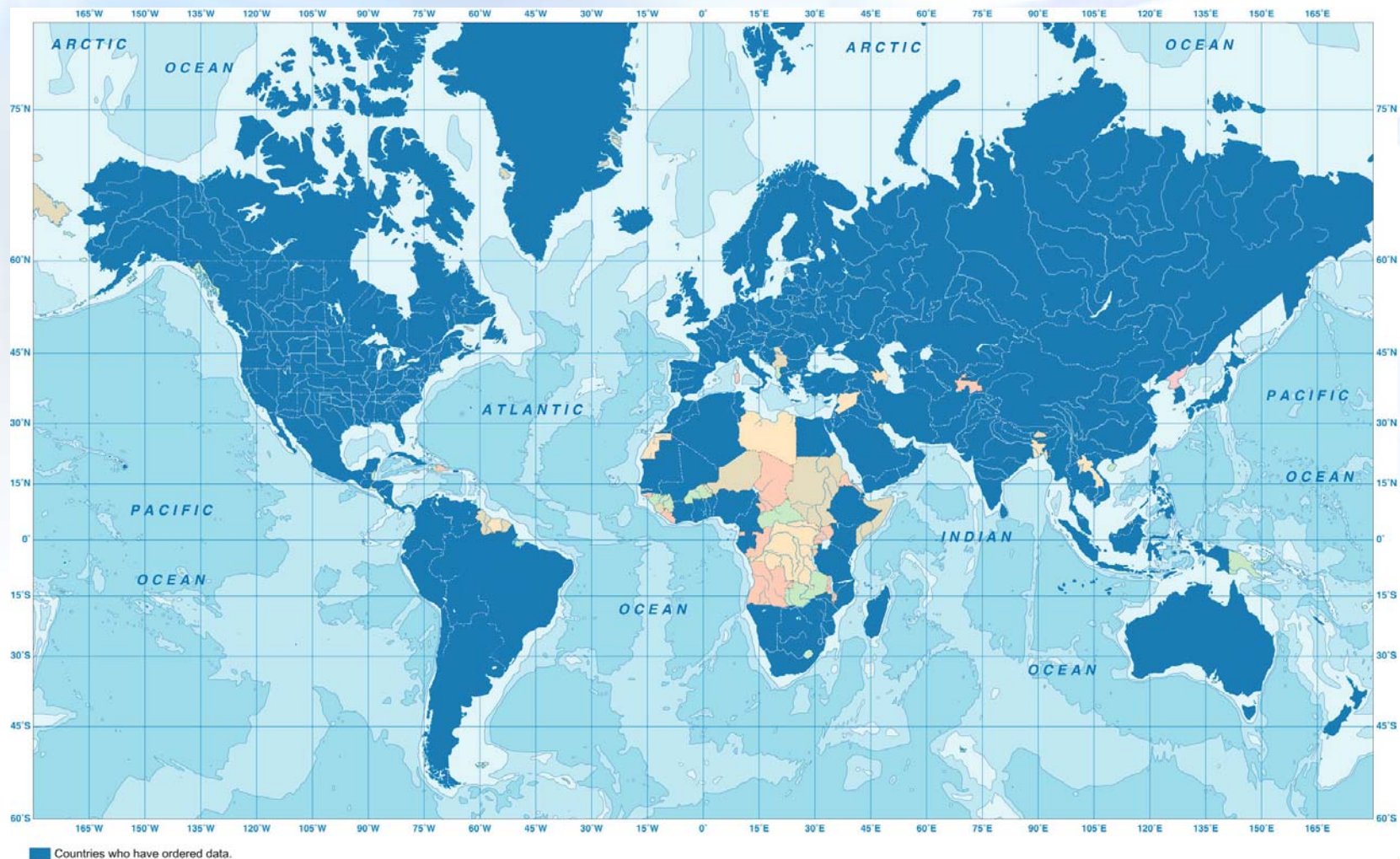


Products Received By Domain





Countries Who Have Ordered Data

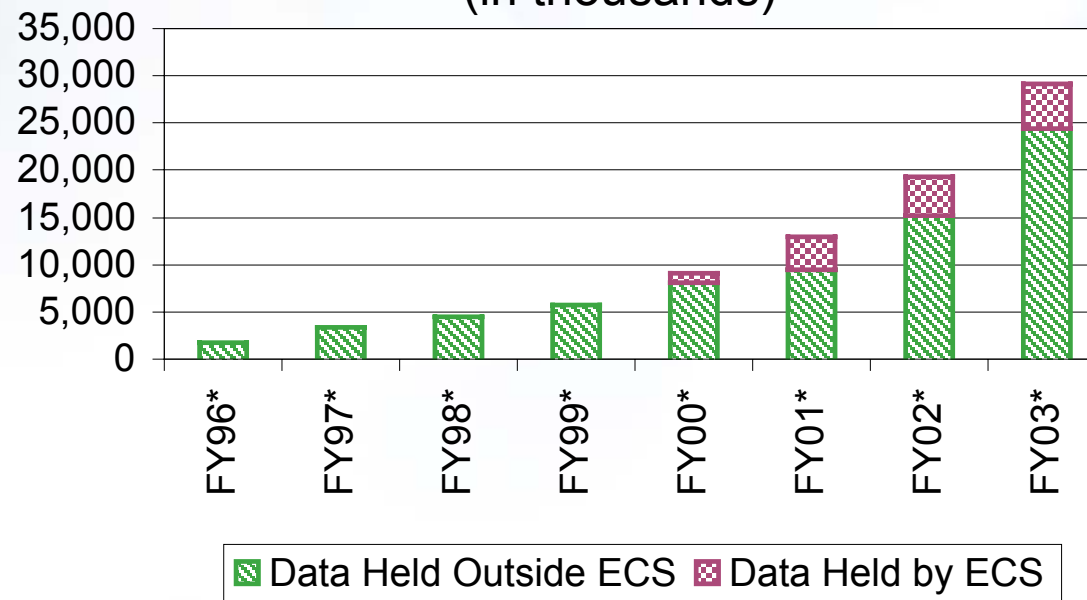




What the Data Usage Statistics Show

- Overall distribution of Earth science products to end users (not counting SCF and SIPS) grew at 10-20% per year between FY2000 and FY2002

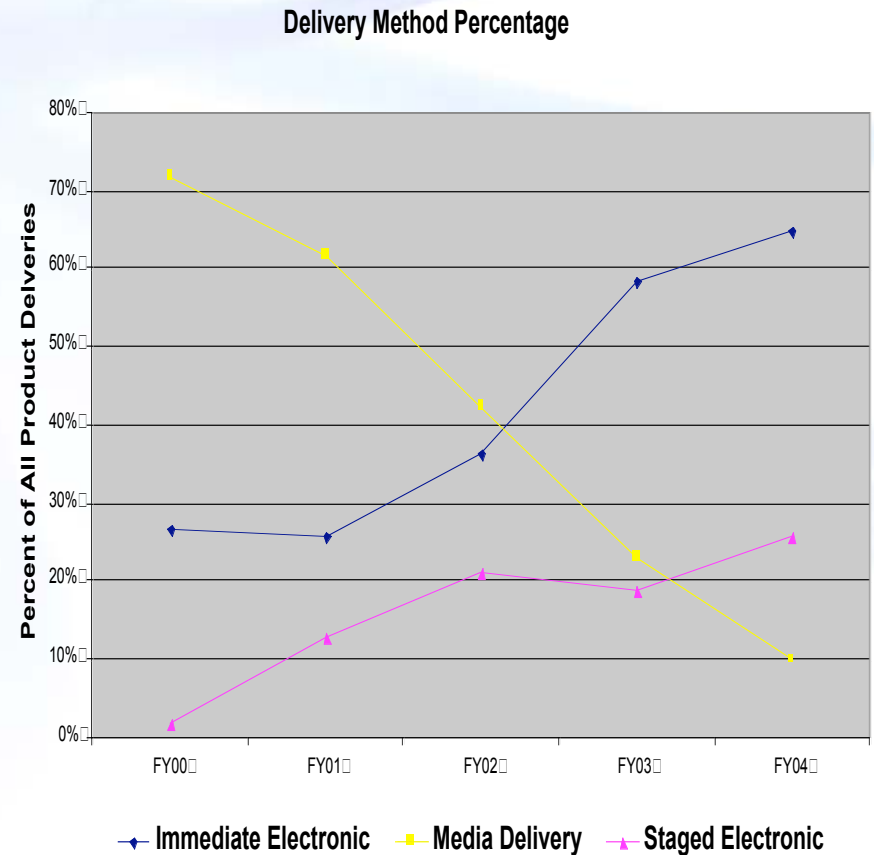
Number of Products Delivered by the DAACs
(in thousands)





What the Data Usage Statistics Show

- More and more, users are downloading data electronically via networks.
 - □ Dramatic increase over four years in the number or products retrieved immediately from web sites, FTP servers and the Data Pools
 - □ Media deliveries fell from 72% to 23% over the period





Next Steps

- ESE will use the lessons learned from this and future assessments to inform our strategic thinking as we plan for the overall evolution and of ESE data and information systems
 - Understanding of the changing user and usage patterns will be critical for successful strategic investments in data and information systems
- Future studies of users and usage will incorporate information from all ESE-funded data activities.
- In 2004, ESE will develop processes for obtaining information directly from users on how they are using Earth science data. ESISS will provide advice on methodology.

